

Preparation of standard solutions and calibration curve

Stock solution of decursin (1 mg/ml) was prepared by dissolving 50 mg decursin in 50 ml mobile phase. The stock solution was diluted with acetonitrile to yield working standard solutions. The peak areas were plotted against the corresponding decursin concentrations to obtain the calibration curve. The second peak in KMCKT ethanol extract is decursinol angelate.

Instrumentation and chromatographic conditions

An Agilent 1100 series high-performance liquid chromatograph system equipped with a G1312A quaternary pump, G1329A thermostatted autosampler, G1315A diode-array detector and a G1319A Chemstation, was used. The analytical column for separation was an Atlantis RP 18 column (5 μ m, 250mm, 4.6 mm i.d., Waters, Milford, MA). The system was operated at ambient temperature. Decursin was analyzed with a mobile phase mixture of sodium lauryl sulfate (10mM)– sodium phosphate (32.5mM)– acetonitrile (25:25:50, v/v/v) at a flow rate of 1 ml/min. UV detection was at 330 nm. Injection volume was 10 μ l.